TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	RRRRRRRRRRRR RRRRRRRRRRR SARPRRRRRR	AAAAAAA AAAAAAA AAAAAAA	00000000000 00000000000000000000000000	
TTT	RRR RRR	AAA AAA	CCC	EEE
TTT	RRR RRR	AAA AAA	ČČČ	ĒĒĒ
TTT	RRR RRR	AAA AAA	ČČČ	ĔĔĔ
TTT	RRR RRR	AAA AAA	ČČČ	ĒĒĒ
ŤŤŤ	RRR RRR	AAA AAA	ččč	ĒĒĒ
ŤŤŤ	RRR RRR	AAA AAA	ččč	ĒĒĒ
ŤŤí	RRRRRRRRRRRR	AAA AAA	ČČČ	ÈÈÈEEEEEEEE
ŤŤ	RRRRRRRRRRR	AAA AAA	ČČČ	EEEEEEEEEE
ŤŦŤ	RRRRRRRRRRR	AAA AAA	ŠŠŠ	EEEEEEEEEE
ŤŤ	RRR RRR		ČČČ	EEE
ĬŤŤ	RRR RRR	*******	ŠŠŠ	ÈÈÈ
ŤŤŤ	RRR RRR		ŠŠŠ	ĔĔĔ
ŤŤ	RRR RRR	AAA AAA	ččč	ĔĔĔ
ŤŤŤ	RRR RRR	AAA AAA	ŠŠŠ	EEE
ŤŤŤ	RRR RRR	AAA AAA	555	ÈÈÈ
ήŤŤ	RRR RRR	AAA AAA	ງງງງງງງງງງ	ĔĔĔEEEEEEEEEE
ŤŤŤ	RRR RRR	AAA AAA	555555555555555555555555555555555555555	EEEEEEEEEEEE
iti	RRR RRR	AAA AAA	555555555555555555555555555555555555555	EEEEEEEEEEEEE

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\$	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	CCCCCCC CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
LL LL LL LL LL LL LL LL LL LL		\$			

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STRUCDEF -- DECLARATION FILE FOR DATA STRUCTURE DEFINITION AND ACCESS MACROS USED IN THE VAX DEBUGGER

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WRITTEN BY

Bert Beander August, 1981.

MODULE FUNCTION:

This REQUIRE file contains all macros used in defining and accessing data structures (BLISS BLOCKs) in the VAX Debugger. These symbolic names should always be used in CLISS Field-References.

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The following macros must be used in defining field names for all data structures in the Debugger. These macros supply the position, size, and sign-extension values when used in FIELD declarations for BLOCK and BLOCKVECTOR data structures. The various generic forms (as specified by the letters in the names) are as follows:

A Materialized address
L Longword
W Zero-extended word
B Zero-extended byte
V Zero-extended bit field
SW Sign-extended word
SB Sign-extended byte
SV Sign-extended bit field

The 'A' form should be used whenever the field being defined is such that only the address of the field may be materialized in a structure reference; that is, fetch and store operations on the field are not valid. An example of such a field is an ASCII string.

Each of the 'V' and 'SV' forms take one or two parameters. The first parameter is the bit position within the longword (or byte) and the second is the field size in bits. The second parameter is optional; if omitted, it defaults to 1. Thus V_(5) means bit 5 while V_(5,3) means the 3-bit field starting at bit 5 and ending at bit 7. Bit positions are counted from the low-order (least significant) end of the longword, starting at zero.

The following data structure picture shows the locations of the various fields that can be specified. Note how the bit positions are numbered along the top of the illustration.

. MACRO

....

= 0, 0, 0 %, ! Address of a longword

A0_ = 0, 0, 0 %, ! Address of byte 0

A1_ = 8, 0, 0 %, ! Address of byte 1

A2_ = 16, 0, 0 %, ! Address of byte 2

```
15-Sep-1984 23:09:01
15-Sep-1984 22:50:33
                                                                                       VAX-11 Bliss-32 V4.0-742 PESSSSBUAZ8: [TRACE.SRC]STRUCDEF.REG; 1
0100
                     A3_
                             = 24, 0,
                                        0 %.
                                                      ! Address of byte 3
0101
                                        0 %.
0 %.
0102
                                                       Longword
                                Ò.
                                   16,
                                                        Word, zero-extended
0104
                     B_
                                                        Byte, zero-extended
0105
0106
                                        0 X.
                                                       Word 0 zero-extended
                                   16.
0107
      Ŏ
                                                       Word 1 zero-extended
                     W1_
                             = 16,
0108
0109
      0
                                    8,
                                0
                             =
                                        0
                                                        Byte 0 zero-extended
                     B1-
B2-
B3-
0110
                                        Ŏ
                                8.
                                          X.
                             =
                                                       Byte 1 zero-extended
                             = 16.
                                        Ò X.
0111
                                                      . Byte 2 zero-extended ! Byte 3 zero-extended
0112
0114
                     V_(P,S) = P, XIF XNULL(S) XTHEN 1 XELSE S XFI, 0 X, ! Unsigned bit field
0115
      U
                    0116
0117
0118
0119
      0
0120
      0
0121
                             =
                                0, 16,
                                                       Word, sign-extended
0122
                                0.
                                    8.
                                                       Byte, sign-extended
      0
01:4
                     SWO_
SW1_
                             = 0, 16,
                                                       Word O sign-extended
      0
                                        1 %
                             = 16, 16,
                                                       Word 1 sign-extended
0126
      0
                               0.
                     SB0_
SB1_
SB2_
SB3_
0127
                             =
                                    8,
                                                        Byte 0 sign-extended
                            = 8.
                                    ġ,
0128
                                        1 %,
                                                        Byte 1 sign-extended
                            = 16,
0129
                                    <u> 8</u>,
                                                       Byte 2 sign-extended Byte 3 sign-extended
                                        1 %,
0130
0131
                             = 24,
0132
                     SV_(P,S)= P, XIF XNULL(S) XTHEN 1 XELSE S XFI, 1 X, ! Signed bit field
0133
                    ! Bits in BO_
0134
0135
      0
                                                                                   Bits in B1_
Bits in B2_
0136
      0
0137
      0
0138
      0
0139
      Ō
0140
      0
              END OF STRUCDEF.REQ
```

COMMAND QUALIFIERS

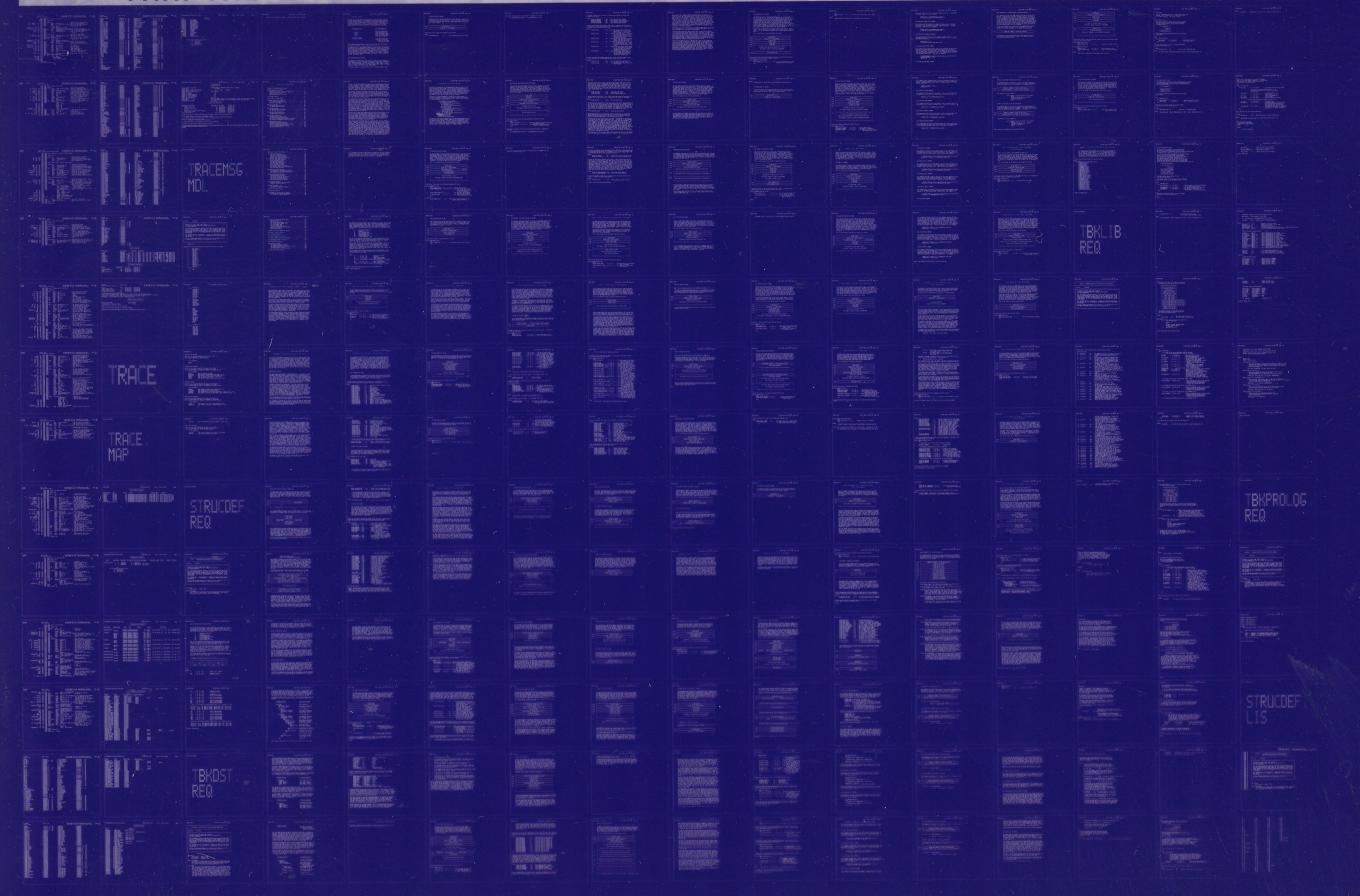
BLISS/LIBRARY=LIB\$:STRUCDEF.L32/LIST=LIS\$:STRUCDEF.LIS SRC\$:STRUCDEF.REQ

Run Time: 00:01.2 Elapsed Time: 00:02.8 Lines/CPU Min: 7058 Lexemes/CPU-Min: 28336 Memory Used: 12 pages TOK.

VAX-11 Bliss-32 V4.0-742 TBK VO4 Page 4 ; Library Precompilation Complete

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